

1       **RESOURCE RESERVATION SYSTEM IN A COMPUTER NETWORK TO SUPPORT**  
2       **END-TO-END QUALITY-OF-SERVICE CONSTRAINTS**

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4       **ABSTRACT OF THE DISCLOSURE**

5       A computer network is disclosed comprising a plurality of interconnected computer  
6       devices including a plurality of disk drives for storing network data, each disk drive comprising a  
7       head and a disk. The computer network comprises a plurality of interconnected nodes, and a  
8       reservation facility for reserving resources within the disk drives and the nodes to support a  
9       predetermined Quality-of-Service constraint with respect to data transmitted between the disk  
10      drives through the nodes of the computer network. In one embodiment, a switched node is  
11      disclosed comprising switching circuitry having more than two bi-directional ports for  
12      simultaneously transmitting data in multiple dimensions through a computer network, a disk for  
13      storing data, a head actuated over the disk for writing data to and reading data from the disk, and  
14      a reservation facility for reserving resources associated with data read from the disk and written  
15      to the disk to support the predetermined Quality-of-Service constraint with respect to data  
16      transmitted through the computer network.